Appl. No. 10/618,303

Amdt. Dated July 18, 2005

Reply to Office Action of April 18, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1 – 10: Cancelled

11. (currently amended) An extruder having a transfer region and comprising:

an extruder sleeve 12 that in said transfer region is provided with first ribs-20, wherein flow channels-22 extend between said ribs; and

an extruder screw-14 disposed in said extruder sleeve-12 and provided with second ribs-16 between which extend flow channels-18 that face said flow channels-22 of said extruder sleeve-12, wherein said first ribs-20 of said extruder sleeve-12 have a ridge that faces said extruder screw-14, wherein said ridge has a width that corresponds to at least one third of a width of said flow channels-22 of said extruder sleeve-12, and wherein between ridges of said second ribs-16 of said extruder screw-14 and said ridges of said first ribs-20 of said extruder sleeve-12 a gap-24 is formed that corresponds to greater than 0.5% of a diameter of said extruder screw-14, and wherein a width of the first ribs of the extruder sleeve is increased approximately to a width of the second ribs of the extruder screw.

- 12. (currently amended) An extruder according to claim 11, wherein said ridges of said first ribs-20 of said extruder sleeve-12 respectively have a width of at least one half of said width of said flow channels-22 of said extruder sleeve.
- 13. (currently amended) An extruder according to claim 11, wherein said ridges of said first ribs-20 of said extruder sleeve-12 respectively have a width of

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approximately 80 to 100% of said width of said flow channels 22 of said extruder

sleeve.

14. (currently amended) An extruder according to claim 11, wherein said

gap 24 corresponds to approximately one percent of the diameter of said extruder

screw-14.

15. (currently amended) An extruder according to claim 11, wherein said

gap-24 has a width that corresponds to at least one of: at least two percent of the

diameter of the extruder screw and at least 15% of the sum of heights of said first

and second ribs 20, 16.

16. (currently amended) An extruder according to claim 11, wherein each

of said ridges of said extruder sleeve-12 and said extruder screw-14 is provided with

an incline-26, 28 in which said gap-24 is increased to at least 3% of the diameter of

the extruder screw, and wherein a normal of said ridges is inclined relative to a

direction of rotation of said extruder screw-14.

17. (currently amended) An extruder according to claim 16, wherein said

gap-24 is increased to more than 5% of the diameter of said extruder screw-14.

18. (currently amended) An extruder according to claim 16, wherein an

incline-28 of said ridge of said first ribs-29 of said extruder sleeve-12 is a portion of

the width of said ridge.

19. (currently amended) An extruder according to claim 18, wherein said

incline-28 is slightly more than one half of the width of said ridge.

20. (currently amended) An extruder according to claim 18, wherein said

incline—28 is a forward three fifths of the width of said ridge when viewed in a

direction of rotation of said extruder screw-14.

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- 21. (currently amended) An extruder according to claim 18, wherein the ridges of said second ribs—16 of said extruder screw—14 are also provided with an incline.
- 22. (currently amended) An extruder according to claim 21, wherein said incline of said ridges of said second ribs—16 is provided at a forward edge as viewed in a direction of rotation of said extruder screw.
- 23. (currently amended) An extruder according to claim 11, wherein the ridges of said ribs-16, 18 of at least one of said extruder screw-14 and said extruder sleeve-12 are provided with a rounded portion or a bevel at a forward edge as viewed in a direction of rotation of said extruder screw.
- 24. (currently amended) An extruder according to claim 11, wherein said gap-24 is at least 0.5% in only a portion of said transfer region, and in a remainder of said transfer region is approximately 1% of the diameter of said extruder screw-14.
- 25. (currently amended) An extruder according to claim 11, wherein said gap 24 between said extruder screw_14 and said extruder sleeve_12 is a shear gap in which material that is to be extruded is subjected to elastic flows or shear flows.
 - 26. (currently amended) An extruder comprising:

an extruder sleeve—12 provided with first ribs—20, wherein flow channels 22 extend between said ribs; and

an extruder screw—14 that runs in said extruder sleeve—12 and is provided with second ribs—16, wherein flow channels—18 extend between said second ribs, wherein said first and second ribs—20, 16 have respective ridges having a width that corresponds to approximately one third of a width of said flow channels—18 of said extruder screw—14, and wherein a gap—24 of at least 1mm is provided between

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said extruder sleeve-12 and said extruder screw-14, and wherein a width of the first

ribs of the extruder sleeve is increased approximately to a width of the second ribs of

the extruder screw.

27. (currently amended) An extruder according to claim 26, wherein said

ridges of said ribs have a width that corresponds to approximately one half of the

width of said flow channels-18 of said extruder screw-14.

28. (currently amended) An extruder according to claim 26, wherein said

ridges of said ribs have a width that corresponds to approximately 80 to 120% of the

width of said flow channels 18 of said extruder screw 14.

29. (currently amended) An extruder according to claim 26, wherein said

gap-24 is between 1.5 and 3mm.

30. (currently amended) An extruder according to claim 26, wherein said

gap-24 between said extruder screw-14 and said extruder sleeve-12 is a shear gap

in which material that is to be extruded is subjected to elastic flows or shear flows.

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